

Overweight & Obesity

Obesity, Race/Ethnicity, and COVID-19

Obesity is a common, serious, and costly chronic disease. Having obesity puts people at risk for many other serious chronic diseases and increases the risk of severe illness from COVID-19. Everyone has a role to play in turning the tide against obesity and its disproportionate impact on racial and ethnic minority groups.

Adult Obesity is Increasing

The [2019 CDC Adult Obesity Prevalence Maps](#)¹ show that obesity remains high – twelve states now have an adult obesity prevalence at or above 35 percent: Alabama, Arkansas, Indiana, Kansas, Kentucky, Louisiana, Michigan, Mississippi, Oklahoma, South Carolina, Tennessee, and West Virginia. [This is up from nine states in 2018.](#)



2019 Adult Obesity Prevalence Maps

Obesity Worsens Outcomes from COVID-19

Adults with obesity are at even greater risk during the COVID-19 pandemic:

- [Having obesity increases the risk of severe illness from COVID-19.](#)
- [Having obesity may triple the risk of hospitalization due to a COVID-19 infection.](#)
- Obesity is linked to impaired immune function.^{2,3}
- Obesity decreases lung capacity and reserve and can make ventilation more difficult.⁴
- As [BMI](#) increases, the risk of death from COVID-19 increases.⁵
- Studies have demonstrated that obesity may be linked to lower vaccine responses for numerous diseases (influenza⁶, Hepatitis B^{7,8,9}, tetanus¹⁰).

Obesity Disproportionately Impacts Some Racial and Ethnic Minority Groups

[Combined data from 2017-2019](#) show notable racial and ethnic disparities:

- Non-Hispanic Black adults had the highest prevalence of self-reported obesity (39.8%), followed by Hispanic adults (33.8%), and non-Hispanic White adults (29.9%).
- 6 states had an obesity prevalence of 35 percent or higher among non-Hispanic White adults.
- 15 states had an obesity prevalence of 35 percent or higher among Hispanic adults.
- 34 states and the District of Columbia (D.C.) had an obesity prevalence of 35 percent or higher among non-Hispanic Black adults.

Hispanic and non-Hispanic Black adults [have a higher prevalence of obesity](#) and are [more likely to suffer worse outcomes from COVID-19](#). Racial and ethnic minority groups have historically not had fair opportunities for economic, physical, and emotional health, and these inequities have increased the risk of getting sick and dying from COVID-19 for some groups. Many of these same factors are contributing to the higher level of obesity in some racial and ethnic minority groups.

What Can be Done

Obesity is a complex disease with many contributing factors. Neighborhood design, access to healthy, affordable foods and beverages, and access to safe and convenient places for physical activity can all impact obesity. The racial and ethnic disparities in obesity underscore the need to address social determinants of health such as poverty, education, housing to remove barriers to health. This will take action at the policy and systems level to ensure that [obesity prevention and management starts early](#), and that everyone has access to [good nutrition](#) and [safe places to be physically active](#). Policy makers and community leaders must work to ensure that their communities, environments, and systems support a healthy, active lifestyle for all.

Steps to Take Now

Systemic change takes time, as does long-term weight loss. In addition to [the steps everyone should take to slow the spread of COVID-19](#), individuals can help protect themselves and their families during this pandemic by:

Eating a healthy diet

Eating a healthy diet with plenty of fruits and vegetables, lean protein, and whole grains as well as the appropriate amount of calories is important for your health, and can help with weight loss and preventing weight gain.¹¹ Good nutrition can help support optimal immune function.^{12,13} A healthy diet can help prevent or support self-management of diseases such as heart disease and type 2 diabetes¹¹, [which also increase the risk of severe illness from COVID-19](#).



Being active

Regular physical activity helps you feel better, sleep better, and reduce anxiety. It can also help with preventing weight gain and when combined with calorie reduction, helps with weight loss.¹⁴ It can also help boost immune function^{15,16} and help prevent diseases that also increase a person's chances of having severe illness from COVID-19 such as heart disease and type 2 diabetes.

Getting enough sleep

[Insufficient sleep](#) has been linked to depression, as well as chronic diseases¹⁷ that may increase the risk of severe illness from COVID-19 such as heart disease, type 2 diabetes, and obesity.

Coping with stress

Stress during an infectious disease outbreak can sometimes cause [changes in sleep or eating patterns, increased use of alcohol and tobacco, or worsening of chronic health problems](#).

Over time, these actions can help individuals with obesity improve their overall health. And if they result in even modest weight loss, there are health benefits, such as improvements in blood pressure, blood cholesterol, and blood sugars.¹⁸ And with a [lower BMI](#), the risk of severe illness from COVID-19 is reduced.⁵



What CDC, Partners, States, and Communities are Doing

Our [work with partners, states, and communities](#) makes it easier for everyone to move more and eat a healthy diet where they live, learn, work, and play. Together, we work to remove barriers and promote health and wellness for all by:

- Bringing communities together to plan and carry-out local, culturally tailored interventions to address poor nutrition, and physical inactivity and tobacco use
- Promoting healthier food and beverage choices in childcare, schools, workplaces, hospitals, and public venues
- Making healthy foods more available by connecting local producers with retailers and organizations such as childcare, schools, hospitals, and food hubs
- Promoting nutrition standards in early care and education settings, food pantries, and faith-based organizations
- Designing communities that connect sidewalks, bicycle routes, and public transportation with homes, early care and education settings, schools, parks, and workplaces
- Ensuring screening for obesity and access to healthy lifestyle programs for children and their families



The epidemic of obesity is impacting the severity of the COVID-19 pandemic. Given the added risks associated with COVID-19, we need to support all individuals, especially members of racial and ethnic minority groups, to live active healthy lives.

References

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Resources

- [Food assistance](#) programs and food system guidance during COVID-19
- [Policy resources](#) to support social determinants of health
- [Health Equity Resource Toolkit for State Practitioners Addressing Obesity Disparities](#)
- [COVID-19: Health Equity Considerations and Racial and Ethnic Minority Groups – What We Can Do](#)
- Strategies to support [healthy food systems](#), [create activity-friendly environments](#), and [prevent obesity](#).
- [Healthy Eating for a Healthy Weight](#)
- [Physical Activity for a Healthy Weight](#)
- [Adult BMI Calculator](#)
- [CDC's Division of Nutrition, Physical Activity, and Obesity \(DNPAO\)](#)
- [DNPAO's State and Local Programs](#)

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